

Subject : BIOLOGY DPP No. : 5 Class: XIth

Date:

Topic :- Biomolecules							
1.	Name the four elem system a) C, H, O, P	nents called 'Big-four' b) C, H, O, N	which make up 95% of a	all elements found in a living			
	u) 0, 11, 0, 1	5) 5, 11, 5, 11	0) 0, 11, 0, 11	uj 0, 11, 0, 0			
2.	Proteins are hetero a) 10	polymers which are n b) 4	nadeup of type of me c) 20	onomers of amino acids d) 3			
3.	a) Both the path are	e the same energy e of a cat <mark>aboli</mark> c pathwa	is used to drivery are d) Their enzymes	bled in cell. Why? b) The free energy released from are pathway is used to drive other d) Their enzymes are controlled by their activators and inhibitors			
4.	Molecular weight a) >12000	of protein is b)>6000	c) <12000	d)600-3000			
5.	Name the disacchar a) Trehalose	ride whi <mark>ch is t</mark> he majo b) Chitin	r sugar of insect haemol c) Cellulose	ymph d) All of these			
6.	One turn of DNA la) 8	nas nucleotide pairs b) 100	c) 6	d) 10			
7.	Phospholipids are a) Amphipathic	e b) Amphibolic	c) Hydrophobic	d) None of these			
8.	The following reaction is catalysed by which of the enzyme? $NADH + H^{+} + \frac{1}{2}O_{2} \rightarrow NAD^{+} + H_{2}O$ a) Hydrolases b) Cytochrome oxidases c) Transferases d) Lyases						

9.	a) Because they have d	ny metabolic pathways are comparable to automobile traffic in a city? Because they have definite direction b) Because they result in clumsiness Because they result in massive production of d) None of the above Exercise compounds					
10.	A bond formed between carboxyl group of one amino acid and amino group of adjacent amino acid, is called						
	a) Peptide bond	b) Hydrogen bond	c) Covalent bond	d) All of these			
11.	In animal tissues, the ca) Molecules	ategories of compounds b) Primary metabolites	=	d) Biomolecules			
12.	Cellulose is a polyme a) α — glucose		c) β — glucose	d) β — fructose			
13.	Proteins with catalytic a) Reactants	power are called b) Substrate	c) Co-factors	d) Enzymes			
14.	The enzyme which coa) Amylase	onve <mark>rts c</mark> orn starch int b) Glucoamylase	to fructose rich corn sy c) Glucoisomerase	=			
15.	15. The globular proteins un <mark>derg</mark> o structural changes, in response to extremes of pH of temperature, the process called						
	a) Renaturation	b) <mark>Dena</mark> turation	c) Combination	d)Both (a) and (b)			
16.	Which of the following a) Glucose	ng is a disaccharide? b) Fructose	c) Sucrose	d) Galactose			
17.	During Meselson and Stahl's experiments, heavy DNA was distinguished from normal DNA by centrifugation in						
	a) CsOH gradient	b) ¹⁴ NH ₄ Cl	c) ¹⁵ NH ₄ Cl	d) CsCl gradient			
18.	Protein in silk thread is						
	a) Fibroin	b) Keratin	c) Albumin	d) Globulin			
19.	What are proenzymes? a) Inactive form of enzymes c) Neutral form of enzymes		b) Active form of enzymes d) None of these				

- 20. Which of the following is the simplest amino acid?
 - a) Tyrosine
- b) Asparagine
- c) Glycine
- d) Alanine

